

AMENDMENT UNDER 37 C.F.R. § 1.116  
U.S. APPLN. NO. 09/699,553  
ATTORNEY DOCKET NO. Q61563

**AMENDMENTS TO THE DRAWINGS**

Applicants herein amend Figures 8A and 8B of the Drawings to correct a misspelling.

No new matter has been added. Entry of the Replacement Drawings is requested.

Attachment: One (1) Annotated Marked-Up Drawing

Twelve (12) Replacement Sheets

FIG. 1

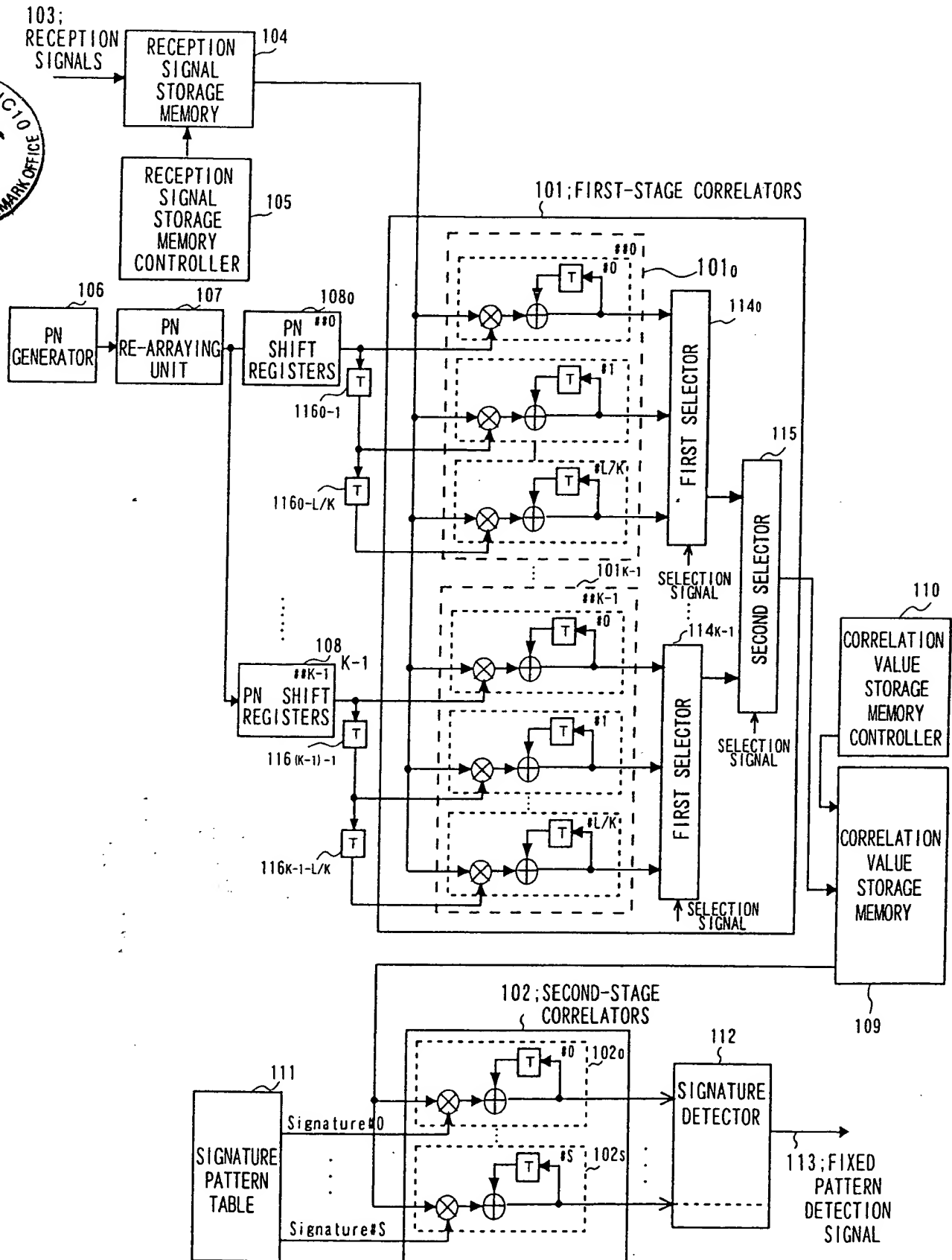
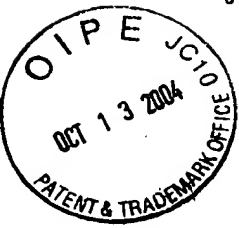


FIG. 2

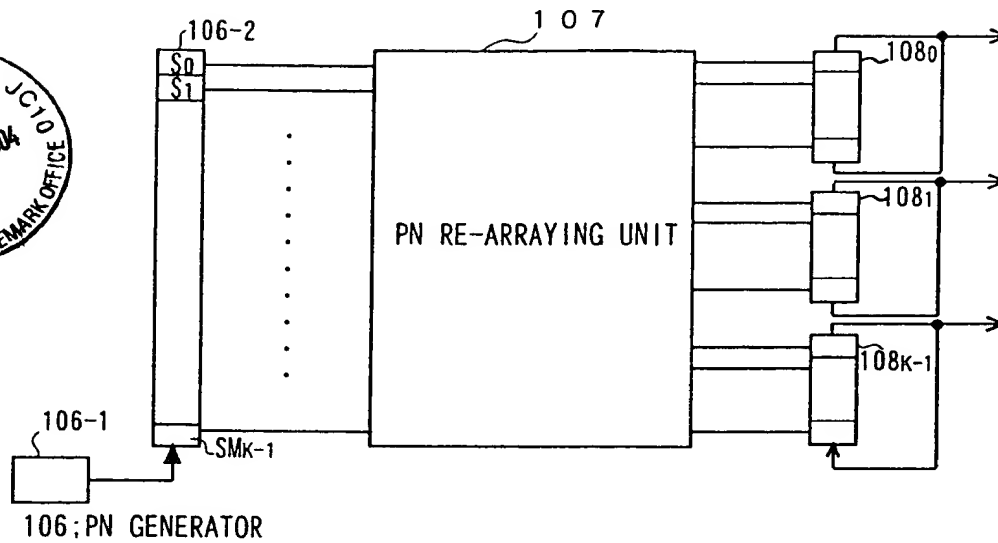
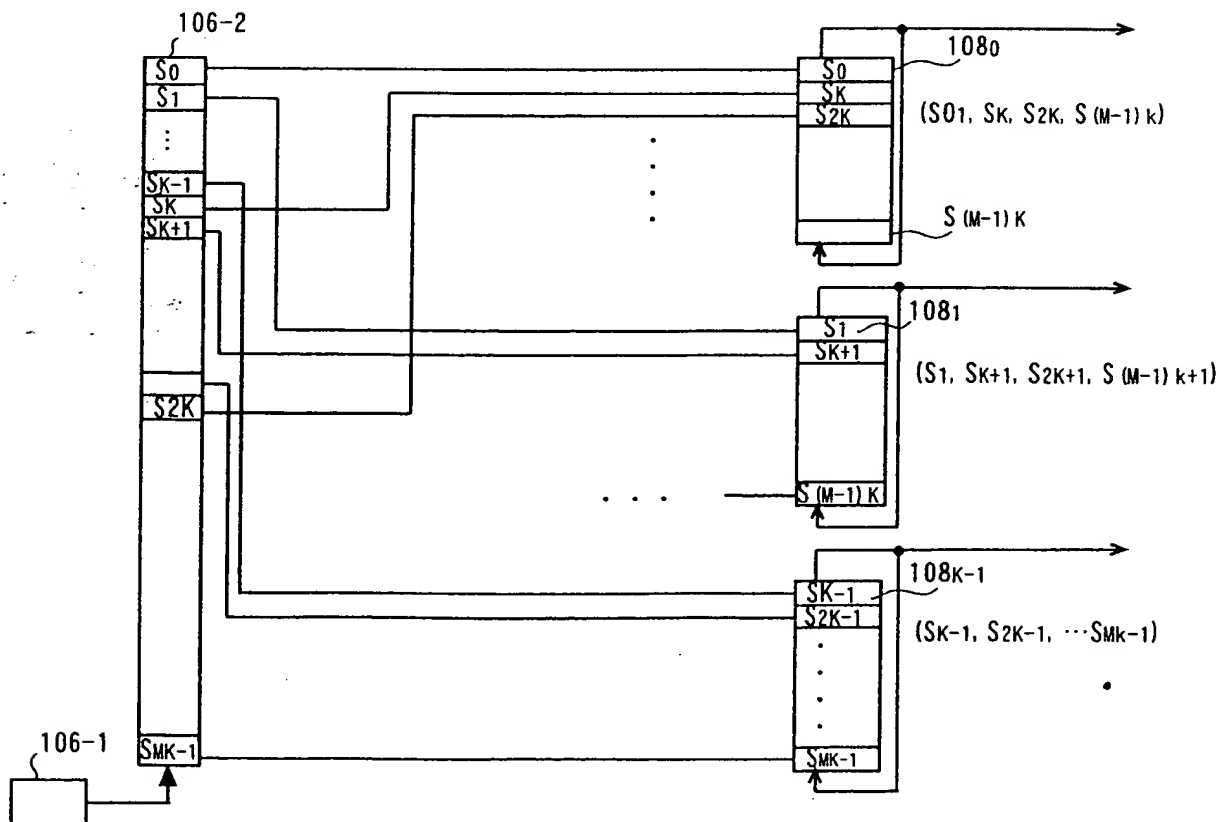


FIG. 3



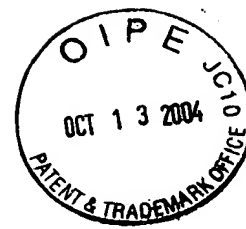
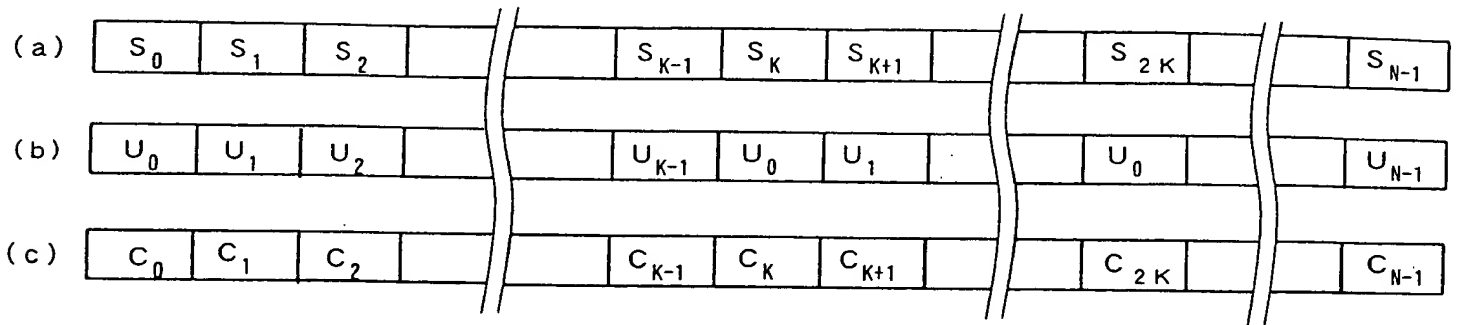


FIG. 4





	0	1	2	L/K	M-1	M	M+1	...	M+L/K-1
#0	$C_{0S_0}$	$C_{KS}$	$C_{2KS_{2K}}$	.....	$C_{(M-1)KS(M-1)K}$				
#1		$C_{KS_0}$	$C_{2KS_K}$		$C_{(M-1)KS(M-2)K}$	$C_{MK S(M-1)K}$			
#2			$C_{2KS_0}$		$C_{(M-1)KS(M-3)K}$	$C_{MK S(M-2)K}$	$C_{(M+1)KS(M-1)K}$		
#L/K									
#0	$C_{0S_1}$	$C_{KS_{K+1}}$	$C_{2KS_{2K+1}}$	$C_{LS_0}$	$C_{(M-1)KS(M-1)K+1}$				$C_{L+(M-1)KS(M-1)K}$
#1		$C_{KS_1}$	$C_{2KS_{K+1}}$	.....		$C_{MK S(M-1)K+1}$			
#L/K									
#0	$C_{0S_2}$	$C_{KS_{K+2}}$	$C_{2KS_{2K+2}}$	$C_{LS_1}$	$C_{(M-1)KS(M-1)K+2}$				$C_{L+(M-1)KS(M-1)K+1}$
#1		$C_{KS_2}$	$C_{2KS_{K+2}}$						
#L/K									
#	$\approx$	$\approx$	$\approx$	$\approx$	$\approx$	$\approx$	$\approx$		$C_{L+(M-1)KS(M-1)K+2}$
#0	$C_{0S_{K-1}}$	$C_{KS_{2K-1}}$	$C_{2KS_{2K-1}}$		$C_{(M-1)KS_{MK-1}}$				
#1		$C_{KS_{K-1}}$	$C_{2KS_{2K-1}}$			$C_{MK S_{MK-1}}$			
#L/K				$C_{LS_{K-1}}$					$C_{L+(M-1)KS_{MK-1}}$



FIG. 6

# # 0 CORRELATOR BLOCK		0	1	2	L/K	M-1	M	M+1	...	M+L/K-1
#0	$C_1 S_0$		$C_{K+1} S_K$	$C_{2K+1} S_{2K}$	...	$C_{(M-1)K+1} S_{(M-1)K}$			...	
#1			$C_{K+1} S_0$	$C_{2K+1} S_K$	...	$C_{(M-1)K+1} S_{(M-2)K}$	$C_{MK+1} S_{(M-1)K}$		...	
#2				$C_{2K+1} S_0$	...	$C_{(M-1)K+1} S_{(M-3)K}$	$C_{MK+1} S_{(M-2)K}$	$C_{(M+1)K+1} S_{(M-1)K}$	...	
#L/K					$C_{L+1} S_0$				...	
# # 1 CORRELATOR BLOCK		0	1	2	L/K	M-1	M	M+1	...	M+L/K-1
#0	$C_1 S_1$		$C_{K+1} S_{K+1}$	$C_{2K+1} S_{2K+1}$	...	$C_{(M-1)K+1} S_{(M-1)K+1}$			...	$C_{L+1} S_{(M-1)K+1}$
#1			$C_{K+1} S_1$	$C_{2K+1} S_{K+1}$	...		$C_{MK+1} S_{(M-1)K+1}$		...	
#L/K					$C_{L+1} S_1$				...	
# # 2 CORRELATOR BLOCK		0	1	2	L/K	M-1	M	M+1	...	M+L/K-1
#0	$C_1 S_2$		$C_{K+1} S_{K+2}$	$C_{2K+1} S_{2K+2}$	...	$C_{(M-1)K+1} S_{(M-1)K+2}$			...	$C_{L+1} S_{(M-1)K+2}$
#1			$C_{K+1} S_2$	$C_{2K+1} S_{K+2}$	...				...	
#L/K					$C_{L+1} S_2$				...	
# # K-1 CORRELATOR BLOCK		0	1	2	L/K	M-1	M	M+1	...	M+L/K-1
#0	$C_1 S_{K-1}$		$C_{K+1} S_{2K-1}$	$C_{2K+1} S_{2K-1}$	...	$C_{(M-1)K+1} S_{MK-1}$			...	
#1			$C_{K+1} S_{K-1}$	$C_{2K+1} S_{2K-1}$	...		$C_{MK+1} S_{MK-1}$		...	
#L/K					$C_{L+1} S_{K-1}$				...	$C_{L+1} S_{(M-1)K+1} S_{MK-1}$



FIG. 7

		1	2	....	K
CORRELATOR BLOCK # #0	CORRELATOR #0	$D_0U_0$	$D_1U_0$	....	$D_{K-1}U_0$
	CORRELATOR #1	$D_KU_0$	$D_{K+1}U_0$	....	$D_{2K-1}U_0$
	CORRELATOR #2	$D_{2K}U_0$	$D_{2K+1}U_0$	....	$D_{3K-1}U_0$
	:	:	:	....	:
	CORRELATOR #L/K	$D_LU_0$	$D_{L+1}U_0$	....	$D_{L+K-1}U_1$
CORRELATOR BLOCK # #1	CORRELATOR #0	$D_{-1}U_1$	$D_0U_1$	....	$D_{K-2}U_1$
	CORRELATOR #1	$D_{K-1}U_1$	$D_KU_1$	....	$D_{2K-2}U_1$
	CORRELATOR #2	$D_{2K-1}U_1$	$D_{2K}U_1$	....	$D_{3K-2}U_1$
	:	:	:	....	:
	CORRELATOR #L/K	$D_{L-1}U_1$	$D_LU_1$	....	$D_{L+K-2}U_0$
:		:	:	....	:
CORRELATOR BLOCK # #K-1	CORRELATOR #0	$D_{-(K-1)}U_{K-1}$	$D_{-K+2}U_{K-1}$	....	$D_0U_{K-1}$
	CORRELATOR #1	$D_1U_{K-1}$	$D_2U_{K-1}$	....	$D_KU_{K-1}$
	CORRELATOR #2	$D_{K+1}U_{K-1}$	$D_{K+2}U_{K-1}$	....	$D_{2K}U_{K-1}$
	:	:	:	....	:
	CORRELATOR #L/K	$D_{L-(K-1)}U_{K-1}$	$D_{L-K+2}U_{K-1}$	....	$D_LU_{K-1}$



FIG . 8(a)

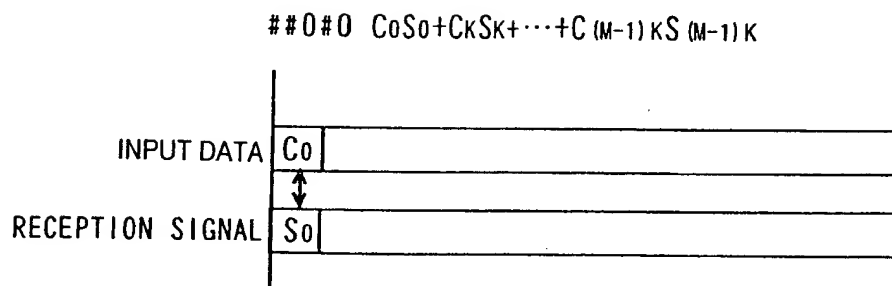


FIG . 8(b)

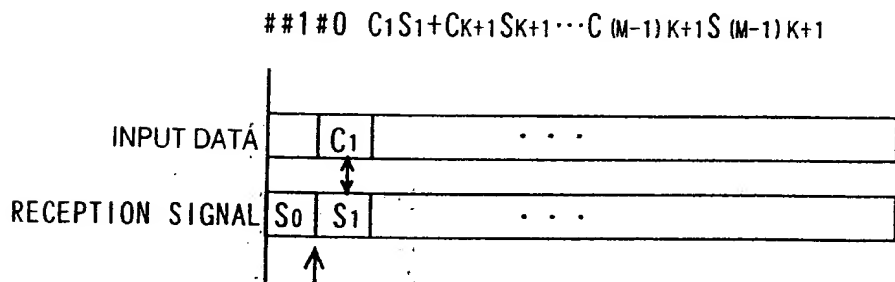




FIG. 9

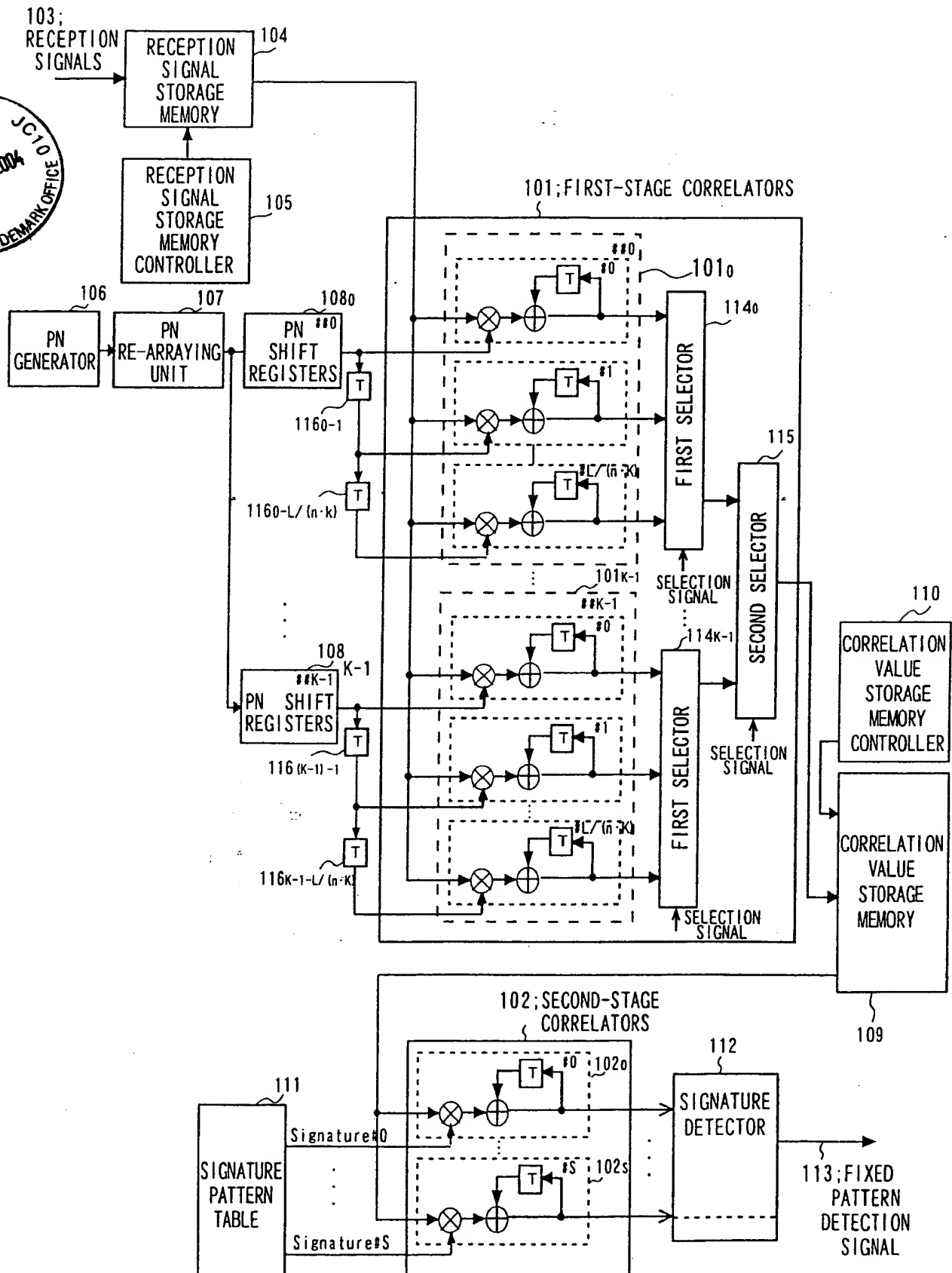




FIG. 10

CORRELATOR BLOCK										
# # 0	0	1	2	L/(n·k)	M-1	M	M+1	...	M+L/(n·K)-1	
#0	C <sub>0</sub> S <sub>0</sub>	C <sub>K</sub> S <sub>K</sub>	C <sub>2K</sub> S <sub>2K</sub>	.....	C <sub>(M-1)K</sub> S <sub>(M-1)K</sub>			}}		
#1		C <sub>K</sub> S <sub>0</sub>	C <sub>2K</sub> S <sub>K</sub>		C <sub>(M-1)K</sub> S <sub>(M-2)K</sub>	C <sub>MK</sub> S <sub>(M-1)K</sub>		}}		
#2			C <sub>2K</sub> S <sub>0</sub>		C <sub>(M-1)K</sub> S <sub>(M-3)K</sub>	C <sub>MK</sub> S <sub>(M-2)K</sub>	C <sub>(M+1)K</sub> S <sub>(M-1)K</sub>	}}		
#L/(n·K)								}}		
# # 1				C <sub>L/n</sub> S <sub>0</sub>				}}	C <sub>L/n+(M-1)K</sub> S <sub>(M-1)K</sub>	
#0	C <sub>0</sub> S <sub>1</sub>	C <sub>K</sub> S <sub>K+1</sub>	C <sub>2K</sub> S <sub>2K+1</sub>	.....	C <sub>(M-1)K</sub> S <sub>(M-1)K+1</sub>			}}		
#1		C <sub>K</sub> S <sub>1</sub>	C <sub>2K</sub> S <sub>K+1</sub>			C <sub>MK</sub> S <sub>(M-1)K+1</sub>		}}		
#L/(n·K)								}}		
# # 2				C <sub>L/n</sub> S <sub>1</sub>					C <sub>L/n+(M-1)K</sub> S <sub>(M-1)K+1</sub>	
#0	C <sub>0</sub> S <sub>2</sub>	C <sub>K</sub> S <sub>K+2</sub>	C <sub>2K</sub> S <sub>2K+2</sub>		C <sub>(M-1)K</sub> S <sub>(M-1)K+2</sub>					
#1		C <sub>K</sub> S <sub>2</sub>	C <sub>2K</sub> S <sub>K+2</sub>							
#L/(n·K)										
# # K-1				C <sub>L/n</sub> S <sub>2</sub>					C <sub>L/2+(M-1)K</sub> S <sub>(M-1)K+2</sub>	
#0	C <sub>0</sub> S <sub>K-1</sub>	C <sub>K</sub> S <sub>2K-1</sub>	C <sub>2K</sub> S <sub>2K-1</sub>		C <sub>(M-1)K</sub> S <sub>MK-1</sub>					
#1		C <sub>K</sub> S <sub>K-1</sub>	C <sub>2K</sub> S <sub>2K-1</sub>			C <sub>MK</sub> S <sub>MK-1</sub>				
#L/(n·K)									C <sub>L/2+(M-1)K</sub> S <sub>MK-1</sub>	



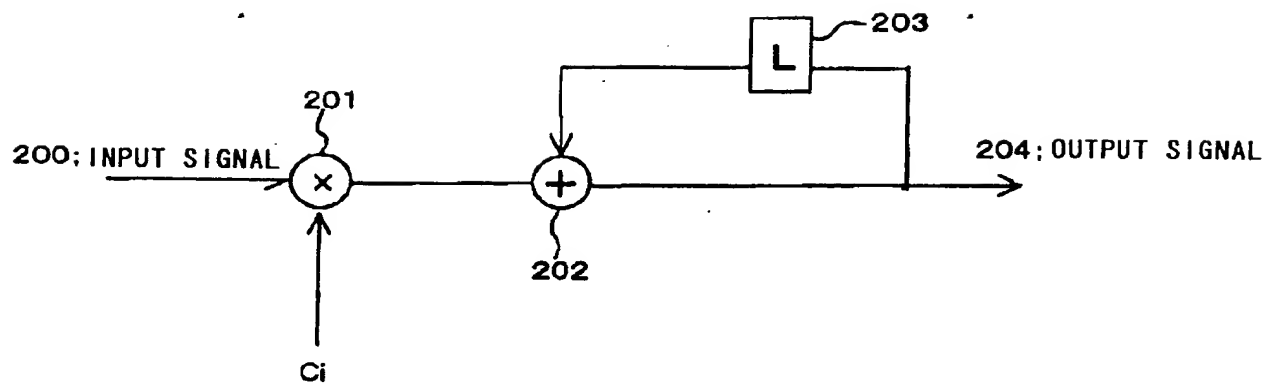
FIG. 11

		1	2	...	K
CORRELATOR BLOCK #0	CORRELATOR #0	$D_0 U_0$	$D_1 U_0$	....	$D_{K-1} U_0$
	CORRELATOR #1	$D_K U_0$	$D_{K+1} U_0$	....	$D_{2K-1} U_0$
	CORRELATOR #2	$D_{2K} U_0$	$D_{2K+1} U_0$	....	$D_{3K-1} U_0$
	:	:	:	....	:
	CORRELATOR #L/(n·K)	$D_{L/n} U_0$	$D_{L/n+1} U_0$	....	$D_{L/n+K-1} U_0$
CORRELATOR BLOCK #1	CORRELATOR #0	$D_{-1} U_1$	$D_0 U_1$	....	$D_{K-2} U_1$
	CORRELATOR #1	$D_{K-1} U_1$	$D_K U_1$	....	$D_{2K-2} U_1$
	CORRELATOR #2	$D_{2K-1} U_1$	$D_{2K} U_1$	....	$D_{3K-2} U_1$
	:	:	:	....	:
	CORRELATOR #L/(n·K)	$D_{L/n-1} U_1$	$D_{L/n} U_1$	....	$D_{L/n+K-2} U_1$
≈ : ≈ : ≈ : ≈					
CORRELATOR BLOCK #K-1	CORRELATOR #0	$D_{-(K-1)} U_{K-1}$	$D_{-K+2} U_{K-1}$	....	$D_0 U_{K-1}$
	CORRELATOR #1	$D_1 U_{K-1}$	$D_2 U_{K-1}$	....	$D_K U_{K-1}$
	CORRELATOR #2	$D_{K+1} U_{K-1}$	$D_{K+2} U_{K-1}$	....	$D_{2K} U_{K-1}$
	:	:	:	....	:
	CORRELATOR #L/(n·K)	$D_{L/n-(K-1)} U_{K-1}$	$D_{L/n-K+2} U_{K-1}$	....	$D_{L/n} U_{K-1}$



FIG . 12

PRIOR ART





# FIG . 13

## PRIOR ART

